

About Our Presenters

Mr. Steve Allbee - USEPA Project Director, Gap Analysis; primary author, USEPA's The Clean Water and Drinking Water Infrastructure Gap Analysis; 28 years EPA – Lead responsibility for developing several national level wastewater initiatives and programs; BA, MA, MPA.

Mr. Duncan Rose - Vice President & Service Group Manager - Management Consulting, GHD LLC; Former city/county manager; co-author of WEF's best-selling textbook, *Managing the Water and Wastewater Utility*; 30 years state & local government management; Adjunct Faculty, Florida State University, Askew School of Public Policy; BA, MSP, MAPA.

Mr. Doug Stewart – P.E. Principal Consultant, GHD; former Asset Management Program Director, Orange County Sanitation District; 25 years engineering experience, 10 years utility management; BS, MSCE.

Registration Fee (Includes 2 full breakfasts, Lunch both days, and refreshments at all breaks) only **\$175**

1.6 CEUs (Iowa) for completing the workshop.

Confirmation by E-mail

If you would like to receive confirmation of your registration by email, please include your e-mail address with your registration. NASSCO will confirm your registration within 5 business days of receiving the registration.

Cancellation Policy

Requests for registration cancellation must be received in writing before 5:00 p.m., November 3, 2006. No refunds after November 4, 2006, but substitutions are welcome.

Workshop Site/Hotel Accommodations:

The workshop will be held at:
Embassy Suites Hotel
101 East Locust Street
Des Moines, IA 50309

Room Reservations: A limited block of rooms will be held at a discounted rate of \$129 plus tax until 5:00 p.m. October 10, 2006. Be sure to refer to the Asset Management Seminar when making your reservation.

Ph: 1-800-EMBASSY or 555-244-1700

Workshop Schedule

- ♦ **November 13:** Hotel Check In
- ♦ **November 14:**
Registration 7:00 – 8:00 a.m.
8:00 a.m. – 5:00 p.m. Workshop
(Continental breakfast and lunch provided)
- ♦ **November 15:** 8:00 a.m. – 4:00 p.m.
(Continental breakfast and Lunch provided)

NASSCO is managing registrations.

Registration Forms Are Available Online:

<http://www.NASSCO.org/>

Or

Contact NASSCO: Phone: 410-486-3500

Fax: 410-486-6838

November 14 & 15, 2006
Des Moines, Iowa

Advancing Asset Management In Your Utility:

A “Hands-on” Workshop

“America's water infrastructure is critical to our nation's environmental, economic, and social health. To help sustain our infrastructure, we should all be striving towards the goal of making Advanced Asset Management concepts and technologies the normal and expected condition of the service, everywhere”.

Benjamin H. Grumbles,
Assistant Administrator for Water,
USEPA



Sponsored by:

- * Iowa Department of Natural Resources (DNR)
- * United State Environmental Protection Agency (USEPA): Office of Wastewater Management
- * National Association of Sewer Service Companies (NASSCO)

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The Challenge:

Over the past half century, America has spent trillions of dollars building some of the finest infrastructure that history has ever seen. Indeed, this infrastructural investment has played a substantial role in the sustained wealth, prosperity, and quality of life of our country. But in many communities, this infrastructure is severely stressed from over-use, under-funding of maintenance and renewal, and aging.

A “hands-on” workshop for the senior utility manager

A comprehensive approach to managing our capital assets is overdue - one that brings “state of the practice” advanced asset management (“AAM”) concepts, tools, techniques, and technologies to bear on managing for cost-effective performance. This approach, first and foremost, is one that focuses relentlessly on providing sustained performance of value to the customer at the lowest life-cycle cost and at an acceptable level of risk to the organization.

The Focus:

The great French author, Victor Hugo, once observed, “An invasion of armies can be resisted, but not an idea whose time has come.” Public sector managers have been managing assets for decades. However, it is clear that what we have been doing in the past will not be sufficient to address the growing and increasingly complex challenges that lie ahead.

Practical, advanced techniques for better managing assets have been developed and refined in both the private sector in the US and in water and wastewater agencies around the world. Management thinking is centered on long-term effectiveness, service sustainability, and effective environmental management. *How can these advanced asset management concepts, tools and techniques be most effectively transferred into the water and wastewater industry, more specifically, into your agency? Where to start? How to proceed? How to select appropriate tools?*

The Workshops:

The AAM challenge for US agency officials is one of “knowledge transfer”. **For this reason, these workshops have been designed as an extensive “hands-on” experience.** Each workshop:

- ◆ Incorporates a real world “storyline” to realistically demonstrate an advanced asset management way of approaching difficult asset-driven problems.
- ◆ Is built around participant exercises that demonstrate the concepts, techniques and tools of advanced asset management.
- ◆ Is centered on “case-based” mentoring by expert asset management practitioners.

The agenda is built around five core questions (see agenda, right panel). *The workshops focus on demonstrating, step-by-step, how an agency would select and deploy “Best Appropriate AM Practices” that are best suited to that agency.*

Agenda Highlights Morning November 14:

Introductions

Storyline, Background And Context

- ◆ Introduction Of Storyline
- ◆ The Changing Utility Industry
- ◆ The Emerging Utility Of Tomorrow

Overview Of Fundamental Concepts And Core Practices

- ◆ A Definition Of AAM
- ◆ The AAM Paradigm
- ◆ The Nine Building Blocks Of AAM
- ◆ Managing The Asset Base’s “Potential To Fail”
- ◆ Payoffs And Benefits, Downsides

Storyline And Worksheets - Tom’s Very Bad Day

Core Question 1: What Is The Current State Of My Assets?

- ◆ The Role Of Expert Judgment – The “Delphi Group”
- ◆ Building a “Process Layout” Schematic
- ◆ Creating The “Asset Hierarchy”
- ◆ Defining The “Data Standard”
- ◆ Initial Condition Analysis, Remaining Physical Life

Valuation/Asset Consumption/Financial Disclosure From a GASB Perspective

Afternoon November 14:

Core Question 2: What Is My Required “Sustainable” Level Of Service (LOS)?

- ◆ What Is “LOS”? Why Do It?
- ◆ How It Works (Strategic Level Versus Operations Level)
- ◆ A “Balanced Scorecard” Approach

Core Question 3: Which Assets Are Critical To Sustained Performance?

- ◆ Understanding How My Assets Can Fail
- ◆ What The Likelihood Of Failure Is
- ◆ What The Consequences Are

How To Measure Our Agency’s “Business Risk Exposure”?

Core Question 4: What Are My Best Minimum Life-Cycle-Cost CIP And O&M Strategies?

- ◆ What Alternative “Treatment” (Management) Options Are Feasible?
- ◆ Which Is The Best Strategy – “Optimal Renewal Decision Making”?

Discussion, Q & A And Feedback

Morning November 15:

Core Question 4: O&M (Continued)

- ◆ Using AAM To Drive Operations And Maintenance
- ◆ Moving Systematically Into Reliability Centered And Condition-Based Maintenance

Core Question 4: CIP (Continued)

- ◆ Using AAM To Drive The CIP
- ◆ Strategic CIP Validation
- ◆ Building Your First Asset Management Plan (“AMP”) For The System
- ◆ Balancing CIP And O&M Requirements
- ◆ The Strategic CIP Business Plan

Core Question 5: What Is My Best Long-Term Funding Strategy?

- ◆ So, Valuation Really Does Matter?
- ◆ Determining A Sustainable Renewal Funding Level
- ◆ Effectively Telling The Funding Story
- ◆ The “Whole Of Business” Perspective – Using AAM For Rate Setting & Budgeting

Afternoon November 15:

Focus Topic 1: Deploying An AAM Program

- ◆ The Three Fundamental Deployment Strategies
- ◆ “Gap Analysis” Benchmarking & Developing The AAM Improvement Program
- ◆ The Human Side
- ◆ The Political Side
- ◆ Implementation Work Plans – Lessons Learned

Focus Topic 2: Meeting The IT Challenge - Toward An Enterprise Asset Management System (“EAMS”)

- ◆ Defining “Work Processes”
- ◆ Defining “System Functionality”
- ◆ Defining Data Needs And Data Flows
- ◆ Developing An EAMS Work Plan

Closing Summary, Questions, Comments, Evaluation, Discussion Of Basic Audit